

Amin Rostami-Hodjegan

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306
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14,663
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h-index

106
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324
ext. papers

16,546
ext. citations

4.3
avg, IF

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#	Paper	IF	Citations
306	Simulation and prediction of in vivo drug metabolism in human populations from in vitro data. <i>Nature Reviews Drug Discovery</i> , 2007 , 6, 140-8	64.1	414
305	The Simcyp population-based ADME simulator. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2009 , 5, 211-23	5.5	375
304	Prediction of the clearance of eleven drugs and associated variability in neonates, infants and children. <i>Clinical Pharmacokinetics</i> , 2006 , 45, 931-56	6.2	363
303	Scaling factors for the extrapolation of in vivo metabolic drug clearance from in vitro data: reaching a consensus on values of human microsomal protein and hepatocellularity per gram of liver. <i>Current Drug Metabolism</i> , 2007 , 8, 33-45	3.5	349
302	Population-based mechanistic prediction of oral drug absorption. <i>AAPS Journal</i> , 2009 , 11, 225-37	3.7	298
301	Prediction of intestinal first-pass drug metabolism. <i>Current Drug Metabolism</i> , 2007 , 8, 676-84	3.5	286
300	The bisphosphonate, zoledronic acid, induces apoptosis of breast cancer cells: evidence for synergy with paclitaxel. <i>British Journal of Cancer</i> , 2001 , 84, 1126-34	8.7	262
299	A framework for assessing inter-individual variability in pharmacokinetics using virtual human populations and integrating general knowledge of physical chemistry, biology, anatomy, physiology and genetics: A tale of 'bottom-up' vs 'top-down' recognition of covariates. <i>Drug Metabolism and Pharmacokinetics</i> , 2009 , 24, 53-75	2.2	258
298	Physiologically based pharmacokinetics joined with in vitro-in vivo extrapolation of ADME: a marriage under the arch of systems pharmacology. <i>Clinical Pharmacology and Therapeutics</i> , 2012 , 92, 50-61	6.1	235
297	Changes in liver volume from birth to adulthood: a meta-analysis. <i>Liver Transplantation</i> , 2005 , 11, 1481-94	3.5	231
296	Modified-release hydrocortisone to provide circadian cortisol profiles. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2009 , 94, 1548-54	5.6	220
295	PBPK models for the prediction of in vivo performance of oral dosage forms. <i>European Journal of Pharmaceutical Sciences</i> , 2014 , 57, 300-21	5.1	210
294	Anatomical, physiological and metabolic changes with gestational age during normal pregnancy: a database for parameters required in physiologically based pharmacokinetic modelling. <i>Clinical Pharmacokinetics</i> , 2012 , 51, 365-96	6.2	210
293	In vivo methods for drug absorption - comparative physiologies, model selection, correlations with in vitro methods (IVIVC), and applications for formulation/API/excipient characterization including food effects. <i>European Journal of Pharmaceutical Sciences</i> , 2014 , 57, 99-151	5.1	196
292	Cytochrome p450 turnover: regulation of synthesis and degradation, methods for determining rates, and implications for the prediction of drug interactions. <i>Current Drug Metabolism</i> , 2008 , 9, 384-94	3.5	189
291	Predicting drug clearance from recombinantly expressed CYPs: intersystem extrapolation factors. <i>Xenobiotica</i> , 2004 , 34, 151-78	2	183
290	Prediction of in vivo drug clearance from in vitro data. I: impact of inter-individual variability. <i>Xenobiotica</i> , 2006 , 36, 473-97	2	179

289	Weight-related dosing, timing and monitoring hydrocortisone replacement therapy in patients with adrenal insufficiency. <i>Clinical Endocrinology</i> , 2004 , 61, 367-75	3.4	173
288	'In silico' simulations to assess the 'in vivo' consequences of 'in vitro' metabolic drug-drug interactions. <i>Drug Discovery Today: Technologies</i> , 2004 , 1, 441-8	7.1	173
287	Influence of dose, cigarette smoking, age, sex, and metabolic activity on plasma clozapine concentrations: a predictive model and nomograms to aid clozapine dose adjustment and to assess compliance in individual patients. <i>Journal of Clinical Psychopharmacology</i> , 2004 , 24, 70-8	1.7	170
286	Combining the 'bottom up' and 'top down' approaches in pharmacokinetic modelling: fitting PBPK models to observed clinical data. <i>British Journal of Clinical Pharmacology</i> , 2015 , 79, 48-55	3.8	154
285	Interplay of metabolism and transport in determining oral drug absorption and gut wall metabolism: a simulation assessment using the "Advanced Dissolution, Absorption, Metabolism (ADAM)" model. <i>Current Drug Metabolism</i> , 2010 , 11, 716-29	3.5	145
284	Physiologically based mechanistic modelling to predict complex drug-drug interactions involving simultaneous competitive and time-dependent enzyme inhibition by parent compound and its metabolite in both liver and gut - the effect of diltiazem on the time-course of exposure to <i>British Journal of Clinical Pharmacology</i> , 2010 , 70, 288-300	5.1	144
283	A semi-mechanistic model to predict the effects of liver cirrhosis on drug clearance. <i>Clinical Pharmacokinetics</i> , 2010 , 49, 189-206	6.2	138
282	Sequence- and schedule-dependent enhancement of zoledronic acid induced apoptosis by doxorubicin in breast and prostate cancer cells. <i>International Journal of Cancer</i> , 2005 , 113, 364-71	7.5	138
281	Expression of hepatic drug-metabolizing cytochrome p450 enzymes and their intercorrelations: a meta-analysis. <i>Drug Metabolism and Disposition</i> , 2014 , 42, 1349-56	4	136
280	Inter-individual variability in levels of human microsomal protein and hepatocellularity per gram of liver. <i>British Journal of Clinical Pharmacology</i> , 2003 , 56, 433-40	3.8	128
279	Resurgence in the use of physiologically based pharmacokinetic models in pediatric clinical pharmacology: parallel shift in incorporating the knowledge of biological elements and increased applicability to drug development and clinical practice. <i>Paediatric Anaesthesia</i> , 2011 , 21, 291-301	1.8	123
278	A critical evaluation of the experimental design of studies of mechanism based enzyme inhibition, with implications for in vitro-in vivo extrapolation. <i>Current Drug Metabolism</i> , 2006 , 7, 315-34	3.5	122
277	Simultaneous quantification of the abundance of several cytochrome P450 and uridine 5'-diphospho-glucuronosyltransferase enzymes in human liver microsomes using multiplexed targeted proteomics. <i>Drug Metabolism and Disposition</i> , 2014 , 42, 500-10	4	121
276	Animal versus human oral drug bioavailability: do they correlate?. <i>European Journal of Pharmaceutical Sciences</i> , 2014 , 57, 280-91	5.1	121
275	A mechanistic framework for in vitro-in vivo extrapolation of liver membrane transporters: prediction of drug-drug interaction between rosuvastatin and cyclosporine. <i>Clinical Pharmacokinetics</i> , 2014 , 53, 73-87	6.2	121
274	Misuse of the well-stirred model of hepatic drug clearance. <i>Drug Metabolism and Disposition</i> , 2007 , 35, 501-2	4	118
273	Caffeine urinary metabolite ratios as markers of enzyme activity: a theoretical assessment. <i>Pharmacogenetics and Genomics</i> , 1996 , 6, 121-49		111
272	Modeling and predicting drug pharmacokinetics in patients with renal impairment. <i>Expert Review of Clinical Pharmacology</i> , 2011 , 4, 261-74	3.8	110

271	Why has model-informed precision dosing not yet become common clinical reality? lessons from the past and a roadmap for the future. <i>Clinical Pharmacology and Therapeutics</i> , 2017 , 101, 646-656	6.1	105
270	Meta-analysis of the turnover of intestinal epithelia in preclinical animal species and humans. <i>Drug Metabolism and Disposition</i> , 2014 , 42, 2016-22	4	96
269	Covariation of human microsomal protein per gram of liver with age: absence of influence of operator and sample storage may justify interlaboratory data pooling. <i>Drug Metabolism and Disposition</i> , 2008 , 36, 2405-9	4	94
268	Meta-analysis of studies of the CYP2D6 polymorphism in relation to lung cancer and Parkinson's disease. <i>Pharmacogenetics and Genomics</i> , 1998 , 8, 227-38		92
267	Does age affect gastric emptying time? A model-based meta-analysis of data from premature neonates through to adults. <i>Biopharmaceutics and Drug Disposition</i> , 2015 , 36, 245-57	1.7	87
266	Critique of the two-fold measure of prediction success for ratios: application for the assessment of drug-drug interactions. <i>Drug Metabolism and Disposition</i> , 2011 , 39, 170-3	4	85
265	Mechanism-based inactivation of CYP2D6 by methylenedioxymethamphetamine. <i>Drug Metabolism and Disposition</i> , 2004 , 32, 1213-7	4	85
264	Absolute abundance and function of intestinal drug transporters: a prerequisite for fully mechanistic in vitro-in vivo extrapolation of oral drug absorption. <i>Biopharmaceutics and Drug Disposition</i> , 2013 , 34, 2-28	1.7	84
263	A re-evaluation and validation of ontogeny functions for cytochrome P450 1A2 and 3A4 based on in vivo data. <i>Clinical Pharmacokinetics</i> , 2014 , 53, 625-36	6.2	80
262	Oral biopharmaceutics tools - time for a new initiative - an introduction to the IMI project OrBiTo. <i>European Journal of Pharmaceutical Sciences</i> , 2014 , 57, 292-9	5.1	80
261	Variability in Mass Spectrometry-based Quantification of Clinically Relevant Drug Transporters and Drug Metabolizing Enzymes. <i>Molecular Pharmaceutics</i> , 2017 , 14, 3142-3151	5.6	80
260	A pregnancy physiologically based pharmacokinetic (p-PBPK) model for disposition of drugs metabolized by CYP1A2, CYP2D6 and CYP3A4. <i>British Journal of Clinical Pharmacology</i> , 2012 , 74, 873-85	3.8	80
259	Prediction of metabolic drug clearance in humans: in vitro-in vivo extrapolation vs allometric scaling. <i>Xenobiotica</i> , 2006 , 36, 567-80	2	77
258	Population pharmacokinetics of methadone in opiate users: characterization of time-dependent changes. <i>British Journal of Clinical Pharmacology</i> , 1999 , 48, 43-52	3.8	77
257	Expansion of a PBPK model to predict disposition in pregnant women of drugs cleared via multiple CYP enzymes, including CYP2B6, CYP2C9 and CYP2C19. <i>British Journal of Clinical Pharmacology</i> , 2014 , 77, 554-70	3.8	74
256	The proton pump inhibitor, omeprazole, but not lansoprazole or pantoprazole, is a metabolism-dependent inhibitor of CYP2C19: implications for coadministration with clopidogrel. <i>Drug Metabolism and Disposition</i> , 2011 , 39, 2020-33	4	74
255	Implications of mechanism-based inhibition of CYP2D6 for the pharmacokinetics and toxicity of MDMA. <i>Journal of Psychopharmacology</i> , 2006 , 20, 842-9	4.6	74
254	Prediction of time-dependent CYP3A4 drug-drug interactions by physiologically based pharmacokinetic modelling: impact of inactivation parameters and enzyme turnover. <i>European Journal of Pharmaceutical Sciences</i> , 2011 , 43, 160-73	5.1	73

253	Circadian hydrocortisone infusions in patients with adrenal insufficiency and congenital adrenal hyperplasia. <i>Clinical Endocrinology</i> , 2006 , 65, 45-50	3.4	73
252	A physiologically based pharmacokinetic model to predict disposition of CYP2D6 and CYP1A2 metabolized drugs in pregnant women. <i>Drug Metabolism and Disposition</i> , 2013 , 41, 801-13	4	72
251	Deciding on success criteria for predictability of pharmacokinetic parameters from in vitro studies: an analysis based on in vivo observations. <i>Drug Metabolism and Disposition</i> , 2014 , 42, 1478-84	4	71
250	Comparison of the rates of disintegration, gastric emptying, and drug absorption following administration of a new and a conventional paracetamol formulation, using gamma scintigraphy. <i>Pharmaceutical Research</i> , 2003 , 20, 1668-73	4.5	69
249	Changes to methadone clearance during pregnancy. <i>European Journal of Clinical Pharmacology</i> , 2005 , 61, 763-8	2.8	69
248	Cytochrome P450 Pig liver pie: determination of individual cytochrome P450 isoform contents in microsomes from two pig livers using liquid chromatography in conjunction with mass spectrometry [corrected]. <i>Drug Metabolism and Disposition</i> , 2011 , 39, 2130-4	4	68
247	The pharmacokinetics of methadone in healthy subjects and opiate users. <i>British Journal of Clinical Pharmacology</i> , 1997 , 44, 325-34	3.8	68
246	Metformin and cimetidine: Physiologically based pharmacokinetic modelling to investigate transporter mediated drug-drug interactions. <i>European Journal of Pharmaceutical Sciences</i> , 2016 , 88, 70-82	5.1	67
245	Modified-release hydrocortisone for circadian therapy: a proof-of-principle study in dexamethasone-suppressed normal volunteers. <i>Clinical Endocrinology</i> , 2008 , 68, 130-5	3.4	67
244	Mechanism-based inactivation of human cytochrome P450 enzymes: strategies for diagnosis and drug-drug interaction risk assessment. <i>Xenobiotica</i> , 2007 , 37, 1225-56	2	67
243	Prediction of in vivo drug clearance from in vitro data. II: potential inter-ethnic differences. <i>Xenobiotica</i> , 2006 , 36, 499-513	2	67
242	Cytochrome P450 3A expression and activity in the human small intestine. <i>Clinical Pharmacology and Therapeutics</i> , 2004 , 76, 391	6.1	67
241	The simcyp population based simulator: architecture, implementation, and quality assurance. <i>In Silico Pharmacology</i> , 2013 , 1, 9	4.3	66
240	Systems Toxicology: Real World Applications and Opportunities. <i>Chemical Research in Toxicology</i> , 2017 , 30, 870-882	4	64
239	Development of CYP2D6 and CYP3A4 in the first year of life. <i>Clinical Pharmacology and Therapeutics</i> , 2008 , 83, 670-1	6.1	64
238	Towards a quantitative framework for the prediction of DDIs arising from cytochrome P450 induction. <i>Current Drug Metabolism</i> , 2009 , 10, 420-32	3.5	63
237	Pharmacometrics in pregnancy: An unmet need. <i>Annual Review of Pharmacology and Toxicology</i> , 2014 , 54, 53-69	17.9	62
236	A physiologically based pharmacokinetic modeling approach to predict disease-drug interactions: suppression of CYP3A by IL-6. <i>Clinical Pharmacology and Therapeutics</i> , 2013 , 94, 260-8	6.1	62

235	Allometric Scaling of Clearance in Paediatric Patients: When Does the Magic of 0.75 Fade?. <i>Clinical Pharmacokinetics</i> , 2017 , 56, 273-285	6.2	61
234	A PBPK Model to Predict Disposition of CYP3A-Metabolized Drugs in Pregnant Women: Verification and Discerning the Site of CYP3A Induction. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2012 , 1, e3	4.5	61
233	Assessment of algorithms for predicting drug-drug interactions via inhibition mechanisms: comparison of dynamic and static models. <i>British Journal of Clinical Pharmacology</i> , 2011 , 71, 72-87	3.8	58
232	Prediction of Drug-Drug Interactions Arising from CYP3A induction Using a Physiologically Based Dynamic Model. <i>Drug Metabolism and Disposition</i> , 2016 , 44, 821-32	4	58
231	Meta-analysis of expression of hepatic organic anion-transporting polypeptide (OATP) transporters in cellular systems relative to human liver tissue. <i>Drug Metabolism and Disposition</i> , 2015 , 43, 424-32	4	57
230	Application of a Physiologically Based Pharmacokinetic Model to Predict OATP1B1-Related Variability in Pharmacodynamics of Rosuvastatin. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2014 , 3, e124	4.5	56
229	Changes in individual drug-independent system parameters during virtual paediatric pharmacokinetic trials: introducing time-varying physiology into a paediatric PBPK model. <i>AAPS Journal</i> , 2014 , 16, 568-76	3.7	55
228	Toward a Consensus on Applying Quantitative Liquid Chromatography-Tandem Mass Spectrometry Proteomics in Translational Pharmacology Research: A White Paper. <i>Clinical Pharmacology and Therapeutics</i> , 2019 , 106, 525-543	6.1	54
227	Kinetic values for mechanism-based enzyme inhibition: assessing the bias introduced by the conventional experimental protocol. <i>European Journal of Pharmaceutical Sciences</i> , 2005 , 26, 334-40	5.1	53
226	Application of a systems approach to the bottom-up assessment of pharmacokinetics in obese patients: expected variations in clearance. <i>Clinical Pharmacokinetics</i> , 2011 , 50, 809-22	6.2	52
225	Methodologies for investigating drug metabolism at the early drug discovery stage: prediction of hepatic drug clearance and P450 contribution. <i>Current Drug Metabolism</i> , 2010 , 11, 678-85	3.5	50
224	Development and Application of a Mechanistic Pharmacokinetic Model for Simvastatin and its Active Metabolite Simvastatin Acid Using an Integrated Population PBPK Approach. <i>Pharmaceutical Research</i> , 2015 , 32, 1864-83	4.5	48
223	Proteomic Quantification of Human Blood-Brain Barrier SLC and ABC Transporters in Healthy Individuals and Dementia Patients. <i>Molecular Pharmaceutics</i> , 2019 , 16, 1220-1233	5.6	47
222	Alternative fusion protein strategies to express recalcitrant QconCAT proteins for quantitative proteomics of human drug metabolizing enzymes and transporters. <i>Journal of Proteome Research</i> , 2013 , 12, 5934-42	5.6	47
221	Age related changes in fractional elimination pathways for drugs: assessing the impact of variable ontogeny on metabolic drug-drug interactions. <i>Journal of Clinical Pharmacology</i> , 2013 , 53, 857-65	2.9	47
220	Application of permeability-limited physiologically-based pharmacokinetic models: part I-digoxin pharmacokinetics incorporating P-glycoprotein-mediated efflux. <i>Journal of Pharmaceutical Sciences</i> , 2013 , 102, 3145-60	3.9	47
219	Reverse Translation in PBPK and QSP: Going Backwards in Order to Go Forward With Confidence. <i>Clinical Pharmacology and Therapeutics</i> , 2018 , 103, 224-232	6.1	46
218	Application of an LC-MS/MS method for the simultaneous quantification of human intestinal transporter proteins absolute abundance using a QconCAT technique. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015 , 110, 27-33	3.5	45

217	Application of permeability-limited physiologically-based pharmacokinetic models: part II - prediction of P-glycoprotein mediated drug-drug interactions with digoxin. <i>Journal of Pharmaceutical Sciences</i> , 2013 , 102, 3161-73	3.9	45
216	Sources of interindividual variability in IVIVE of clearance: an investigation into the prediction of benzodiazepine clearance using a mechanistic population-based pharmacokinetic model. <i>Xenobiotica</i> , 2011 , 41, 623-38	2	45
215	Contribution of the activities of CYP3A, CYP2D6, CYP1A2 and other potential covariates to the disposition of methadone in patients undergoing methadone maintenance treatment. <i>British Journal of Clinical Pharmacology</i> , 2009 , 67, 29-37	3.8	45
214	Delineating the Role of Various Factors in Renal Disposition of Digoxin through Application of Physiologically Based Kidney Model to Renal Impairment Populations. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2017 , 360, 484-495	4.7	45
213	In-vivo indices of enzyme activity: the effect of renal impairment on the assessment of CYP2D6 activity. <i>Pharmacogenetics and Genomics</i> , 1999 , 9, 277-86		44
212	The Pharmacokinetics of the CYP3A Substrate Midazolam in Morbidly Obese Patients Before and One Year After Bariatric Surgery. <i>Pharmaceutical Research</i> , 2015 , 32, 3927-36	4.5	43
211	IMI - Oral biopharmaceutics tools project - Evaluation of bottom-up PBPK prediction success part 2: An introduction to the simulation exercise and overview of results. <i>European Journal of Pharmaceutical Sciences</i> , 2017 , 96, 610-625	5.1	43
210	Monitoring plasma concentrations to individualize treatment with clomiphene citrate. <i>Fertility and Sterility</i> , 2004 , 81, 1187-93	4.8	43
209	Development of a permeability-limited model of the human brain and cerebrospinal fluid (CSF) to integrate known physiological and biological knowledge: Estimating time varying CSF drug concentrations and their variability using in vitro data. <i>Drug Metabolism and Pharmacokinetics</i> , 2016 , 31, 224-33	2.2	42
208	Prediction of concentration-time profile and its inter-individual variability following the dermal drug absorption. <i>Journal of Pharmaceutical Sciences</i> , 2012 , 101, 2584-95	3.9	42
207	The consequences of 3,4-methylenedioxymethamphetamine induced CYP2D6 inhibition in humans. <i>Journal of Clinical Psychopharmacology</i> , 2008 , 28, 523-9	1.7	42
206	Quantitative Proteomics of Clinically Relevant Drug-Metabolizing Enzymes and Drug Transporters and Their Intercorrelations in the Human Small Intestine. <i>Drug Metabolism and Disposition</i> , 2020 , 48, 2454-254	4.1	41
205	Systematic and quantitative assessment of the effect of chronic kidney disease on CYP2D6 and CYP3A4/5. <i>Clinical Pharmacology and Therapeutics</i> , 2016 , 100, 75-87	6.1	41
204	A mechanistic pharmacokinetic model to assess modified oral drug bioavailability post bariatric surgery in morbidly obese patients: interplay between CYP3A gut wall metabolism, permeability and dissolution. <i>Journal of Pharmacy and Pharmacology</i> , 2012 , 64, 1008-24	4.8	41
203	Physiologically Based Pharmacokinetics Is Impacting Drug Development and Regulatory Decision Making. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2015 , 4, 313-5	4.5	41
202	Identification of the effect of multiple polymorphisms on the pharmacokinetics of simvastatin and simvastatin acid using a population-modeling approach. <i>Clinical Pharmacology and Therapeutics</i> , 2014 , 96, 90-100	6.1	41
201	Predicting drug-drug interactions: application of physiologically based pharmacokinetic models under a systems biology approach. <i>Expert Review of Clinical Pharmacology</i> , 2013 , 6, 143-57	3.8	41
200	Population-based pharmacokinetic approach for methadone monitoring of opiate addicts: potential clinical utility. <i>Addiction</i> , 2000 , 95, 1771-83	4.6	40

199	Prediction of olanzapine exposure in individual patients using physiologically based pharmacokinetic modelling and simulation. <i>British Journal of Clinical Pharmacology</i> , 2018 , 84, 462-476	3.8	40
198	Gut Wall Metabolism. Application of Pre-Clinical Models for the Prediction of Human Drug Absorption and First-Pass Elimination. <i>AAPS Journal</i> , 2016 , 18, 589-604	3.7	39
197	The use of mechanistic DM-PK-PD modelling to assess the power of pharmacogenetic studies -CYP2C9 and warfarin as an example. <i>British Journal of Clinical Pharmacology</i> , 2007 , 64, 14-26	3.8	39
196	Accounting for Transporters in Renal Clearance: Towards a Mechanistic Kidney Model (Mech KiM). <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , 2013 , 155-177	0.5	39
195	Virtual bioequivalence for achlorhydric subjects: The use of PBPK modelling to assess the formulation-dependent effect of achlorhydria. <i>European Journal of Pharmaceutical Sciences</i> , 2017 , 109, 111-120	5.1	38
194	A new rapidly absorbed paracetamol tablet containing sodium bicarbonate. I. A four-way crossover study to compare the concentration-time profile of paracetamol from the new paracetamol/sodium bicarbonate tablet and a conventional paracetamol tablet in fed and fasted subjects. <i>Drug Development and Industrial Pharmacy</i> , 2002 , 28, 523-34	3.6	38
193	Sensitivity of indirect metrics for assessing "rate" in bioequivalence studies--moving the "goalposts" or changing the "game". <i>Journal of Pharmaceutical Sciences</i> , 1994 , 83, 1554-7	3.9	38
192	Quantification of Proteins Involved in Drug Metabolism and Disposition in the Human Liver Using Label-Free Global Proteomics. <i>Molecular Pharmaceutics</i> , 2019 , 16, 632-647	5.6	38
191	Identification and quantification of blood-brain barrier transporters in isolated rat brain microvessels. <i>Journal of Neurochemistry</i> , 2018 , 146, 670-685	6	37
190	Contribution of midazolam and its 1-hydroxy metabolite to preoperative sedation in children: a pharmacokinetic-pharmacodynamic analysis. <i>British Journal of Anaesthesia</i> , 2002 , 89, 428-437	5.4	37
189	Novel minimal physiologically-based model for the prediction of passive tubular reabsorption and renal excretion clearance. <i>European Journal of Pharmaceutical Sciences</i> , 2016 , 94, 59-71	5.1	37
188	Utilization of estimated physicochemical properties as an integrated part of predicting hepatic clearance in the early drug-discovery stage: Impact of plasma and microsomal binding. <i>Xenobiotica</i> , 2009 , 39, 227-35	2	36
187	The effects of dose staggering on metabolic drug-drug interactions. <i>European Journal of Pharmaceutical Sciences</i> , 2003 , 20, 223-32	5.1	36
186	The antitussive effect of dextromethorphan in relation to CYP2D6 activity. <i>British Journal of Clinical Pharmacology</i> , 1999 , 48, 382-7	3.8	36
185	Protein expression of various hepatic uridine 5'-diphosphate glucuronosyltransferase (UGT) enzymes and their inter-correlations: a meta-analysis. <i>Biopharmaceutics and Drug Disposition</i> , 2014 , 35, 353-61	1.7	35
184	Physiologically-based pharmacokinetic (PBPK) models for assessing the kinetics of xenobiotics during pregnancy: achievements and shortcomings. <i>Current Drug Metabolism</i> , 2012 , 13, 695-720	3.5	35
183	Quantitative ADME proteomics - CYP and UGT enzymes in the Beagle dog liver and intestine. <i>Pharmaceutical Research</i> , 2015 , 32, 74-90	4.5	34
182	In Vitro-In Vivo Extrapolation Scaling Factors for Intestinal P-Glycoprotein and Breast Cancer Resistance Protein: Part I: A Cross-Laboratory Comparison of Transporter-Protein Abundances and Relative Expression Factors in Human Intestine and Caco-2 Cells. <i>Drug Metabolism and Disposition</i> , 2016 , 44, 297-307	4	34

181	IMI - Oral biopharmaceutics tools project - Evaluation of bottom-up PBPK prediction success part 3: Identifying gaps in system parameters by analysing In Silico performance across different compound classes. <i>European Journal of Pharmaceutical Sciences</i> , 2017 , 96, 626-642	5.1	34
180	A proposal for scientific framework enabling specific population drug dosing recommendations. <i>Journal of Clinical Pharmacology</i> , 2015 , 55, 1073-8	2.9	34
179	Quantitative prediction of formulation-specific food effects and their population variability from in vitro data with the physiologically-based ADAM model: a case study using the BCS/BDDCS Class II drug nifedipine. <i>European Journal of Pharmaceutical Sciences</i> , 2014 , 57, 240-9	5.1	34
178	Trends in oral drug bioavailability following bariatric surgery: examining the variable extent of impact on exposure of different drug classes. <i>British Journal of Clinical Pharmacology</i> , 2012 , 74, 774-87	3.8	34
177	The use of tolbutamide-induced hypoglycemia to examine the intraislet role of insulin in mediating glucagon release in normal humans. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1997 , 82, 1458-61	5.6	34
176	Determination of drug-metabolizing enzyme activity in vivo: pharmacokinetic and statistical issues. <i>Xenobiotica</i> , 1998 , 28, 1255-73	2	34
175	Global Proteomic Analysis of Human Liver Microsomes: Rapid Characterization and Quantification of Hepatic Drug-Metabolizing Enzymes. <i>Drug Metabolism and Disposition</i> , 2017 , 45, 666-675	4	33
174	The effects of portal shunts on intestinal cytochrome P450 3A activity. <i>Hepatology</i> , 2002 , 35, 1549-50; author reply 1550-1	11.2	33
173	Key to Opening Kidney for In Vitro-In Vivo Extrapolation Entrance in Health and Disease: Part I: In Vitro Systems and Physiological Data. <i>AAPS Journal</i> , 2016 , 18, 1067-1081	3.7	33
172	Quantitative Characterization of Major Hepatic UDP-Glucuronosyltransferase Enzymes in Human Liver Microsomes: Comparison of Two Proteomic Methods and Correlation with Catalytic Activity. <i>Drug Metabolism and Disposition</i> , 2017 , 45, 1102-1112	4	32
171	Choice of LC-MS methods for the absolute quantification of drug-metabolizing enzymes and transporters in human tissue: a comparative cost analysis. <i>AAPS Journal</i> , 2015 , 17, 438-46	3.7	32
170	Applications of linking PBPK and PD models to predict the impact of genotypic variability, formulation differences, differences in target binding capacity and target site drug concentrations on drug responses and variability. <i>Frontiers in Pharmacology</i> , 2014 , 5, 258	5.6	32
169	Incorporating in vitro information on drug metabolism into clinical trial simulations to assess the effect of CYP2D6 polymorphism on pharmacokinetics and pharmacodynamics: dextromethorphan as a model application. <i>Journal of Clinical Pharmacology</i> , 2007 , 47, 175-86	2.9	32
168	Determination of a quantitative relationship between hepatic CYP3A5*1/*3 and CYP3A4 expression for use in the prediction of metabolic clearance in virtual populations. <i>Biopharmaceutics and Drug Disposition</i> , 2010 , 31, 516-32	1.7	31
167	A discordance between cytochrome P450 2D6 genotype and phenotype in patients undergoing methadone maintenance treatment. <i>British Journal of Clinical Pharmacology</i> , 2003 , 56, 220-4	3.8	31
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